

Optimized platemaking solutions for flexo printing

Achieve your efficiency, sustainability and
quality goals with FLEXCEL Solutions



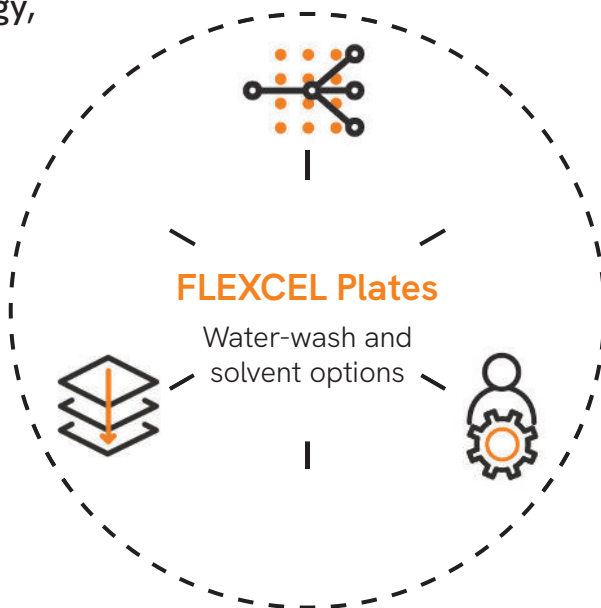
Miraclon is a key enabler of the transformation to modern flexo, through our innovative and differentiated FLEXCEL NX Technology and applications expertise. Modern flexo maximizes returns in the press room. It's consistent, highly capable, efficient and more sustainable.

Miraclon has a strong track record of partnering with customers to help them reap the business benefits of modern flexo. **Let us help you meet your goals!**

A Complete Solution

Fully integrated technology,
ultimate control

Equipment
FLEXCEL NX Imaging and
Processing Systems
LED Exposure Lamp Kits



Software

FLEXCEL NX Central

Provides access to multi-form surface patterning for optimal ink transfer across applications.

Optimizes your workflow for improved efficiencies.

Knowledge-Based Services with Miraclon Technical Support

Maximize your investment over time with our expert guidance and support.



FLEXCEL NX Systems

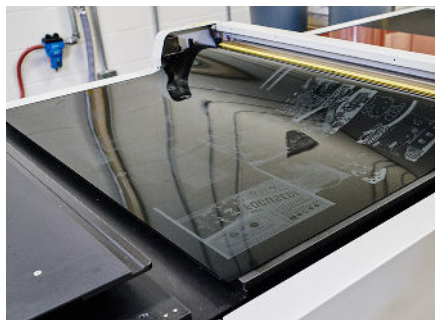
Consistently highest resolution, fastest imaging

Delivers consistently accurate 1:1 image reproduction based on SQUARESPOT Imaging Technology. Unmatched in process predictability, the FLEXCEL NX System is a fully controlled, repeatable platemaking process that delivers superior performance and results on press. The FLEXCEL NX System includes imager, laminator, and FLEXCEL NX Central Software and is designed for dedicated imaging and plate materials. It comes in five different configurations and supports your choice of three plate types, so you set your level of flexibility.



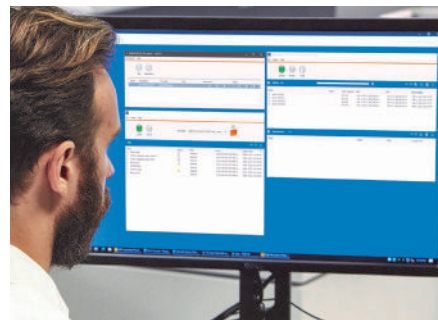
Imager

Easy to use and semi-automatic with impressively fast imaging, it's designed to work exclusively with FLEXCEL Plate Kits.



Laminator

Quick and simple lamination of the film to the plate prior to exposure and processing removes all oxygen between mask and plate for full-amplitude flat top dots.



FLEXCEL NX Central Software

All new FLEXCEL NX Systems come with FLEXCEL NX Central Software, which automates the layout process to maximize production efficiency.

Full range of FLEXCEL NX Systems

	FLEXCEL Plate Sizes						Primary applications			
	610 x 762 mm 24 x 30 inch	800 x 1067 mm 31.5 x 42 inch	900 x 1200 mm 35.4 x 47.2 inch	1067 x 1524 mm 42 x 60 inch	1270 x 1651 mm 50 x 65 inch	1270 x 2032 mm 50 x 80 inch	Labels	Folding cartons	Corrugated	Flexibles
FLEXCEL NX Wide 5080 System	•	•	•	•	•	•		•	•	•
FLEXCEL NX Wide 4260 System	•	•	•	•				•	•	•
FLEXCEL NX Wide 3548 System	•	•	•						•	•
FLEXCEL NX Mid System	•	•					•	•		•
FLEXCEL NX Narrow System	•						•			

FLEXCEL Plates

Streamlined portfolio for a wide range of applications



Solvent processed



Water processed

FLEXCEL Prime Plates

Most productive and efficient transferring ink to films, foils, paper, shrink films, pressure-sensitive labels, envelopes and liners.

- 1.14 mm (0.45 in) – 2.84 mm (0.112 in)
- 610 x 762 mm (24x30 in) – 1270 x 2032 mm (50 x 80 in) sizes
- Min dot (50 micron)
- Fine line 10-100um

FLEXCEL NXC Plates

Designed for highest quality corrugated board with a variety of liner and flute types, and with water-based inks.

- 2.84 mm (0.112 in) – 3.94 mm (0.155 in)
- 850 x 1800 mm (33.46 x 70.86 in) – 1270 x 2032 mm (50 x 80 in) sizes
- Min dot (20 micron)
- Fine line 50um

FLEXCEL Ultra Plates

Similar proven performance to FLEXCEL Prime Plates with the added benefits of solvent-free, VOC-free, and fast platemaking.

- 1.14 mm (0.45 in) & 1.70 mm (0.65 in)
- 610 x 762 mm (24x30 in) – 1067 x 1524 mm (42 x 60 in) sizes
- Min dot (150 micron)
- Fine line 20-120um

FLEXCEL NX Ultra Processors

Simply clean. Simply fast. Simply high performing.

Built for production, FLEXCEL NX Ultra Processing Systems deliver press-ready plates in less than an hour utilizing Ultra Clean Technology. Available in two convenient format sizes, these systems deliver high volume plate production that is easy to operate and maintain.

Ultra Clean Technology

Our patented Ultra Clean Technology solves the fundamental challenge of inconsistency traditionally associated with aqueous processed flexo plates. A continuous operation comprised of natural-based plate processing agents and special plate and processor cleaning methods ensures clean, artifact and debris-free plates time after time.

FLEXCEL NX Ultra 35 Processing System

An efficient all-in-one system, the FLEXCEL NX Ultra 35 Processor includes exposure unit, aqueous washout system, drying and finishing. Supports plate sizes up to 900 x 1200 mm (31.5 x 42 in).

FLEXCEL NX Ultra 42 Processing System

An efficient larger format system ideal for wide web printer converters and trade shops, the FLEXCEL NX Ultra 42 Processor includes aqueous washout system, drying and finishing. Paired with an external exposure unit, it is built for high volume production. Supports plate sizes up to 1067 x 1524 mm (42 x 60 in).



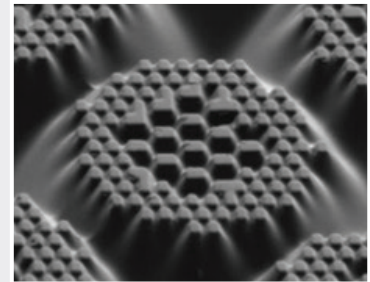
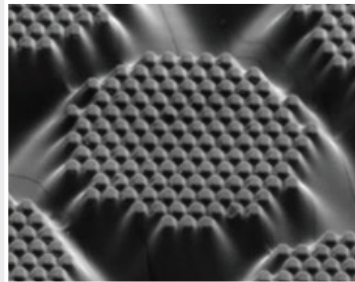
FLEXCEL NX Central Software

Your hub for accessing all features...



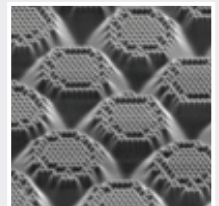
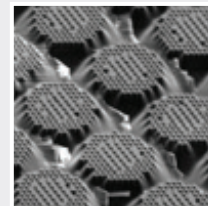
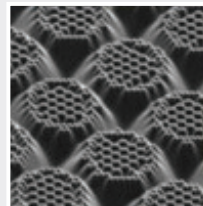
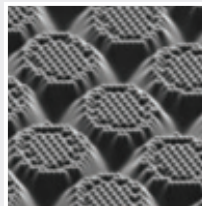
Plate layout optimization

FLEXCEL NX Central Software enables a step change in flexo platemaking productivity by enabling manual plate layout time savings of up to 90% and boosting plate utilization by up to 10%. It enables the integration of multiple multi-form surface patterning features into one automated plate layout, which allows more jobs to be completed in less time, at a lower cost.



Multi-form surface patterning

FLEXCEL NX Technology offers a diverse range of single-form, double-form, and triple-form patterns meticulously crafted to optimize ink flow and transfer, enhancing print efficiency to the fullest. With the exceptional capability to incorporate various patterns into your plate, FLEXCEL NX Technology empowers you to tailor the characteristics of our plates to suit the specific requirements of every job.



FLEXCEL NX Print Suite for Flexible Packaging

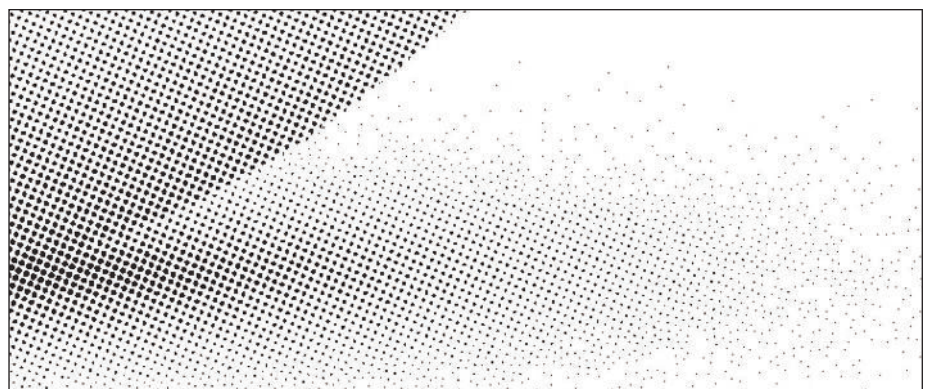
Unlocking the potential of PureFlexo™ Printing, our advanced triple-form patterns excel in solid ink laydown, edge definition, and prevent solvent ink spread, thus minimizing unplanned press interruptions.

FLEXCEL NX Print Suite for Narrow Web

Empowering UV Choice Printing, this suite features a range of double-form and triple-form patterns finely tuned for UV and water-based ink transfer, ensuring superior solid ink laydown and minimizing unplanned press downtime.

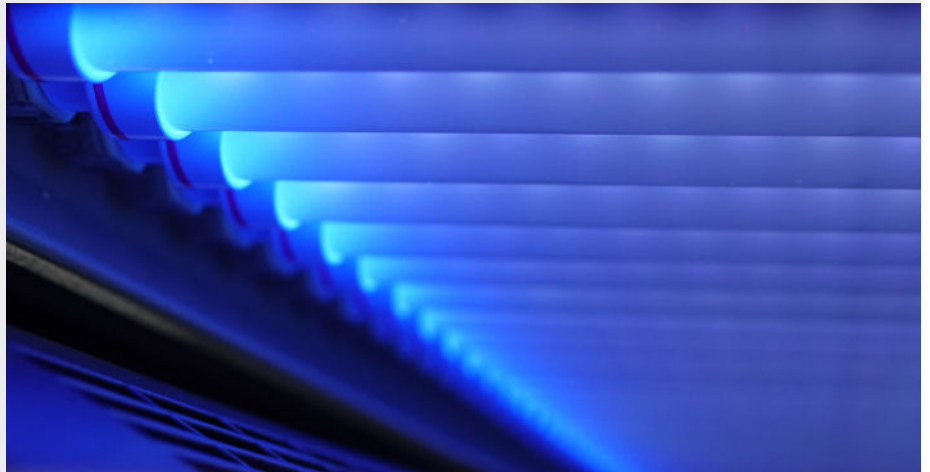
Halftone screening

The Halftone Screening Package for FLEXCEL NX Central Software includes SX and CX transitional screening, which delivers the cleanest, brightest whites; unmatched vignette, highlight and shadow performance; excellent fade to zero, drop shadows and a greater tonal range, offering visual parity with offset, gravure and digital.



Shine LED Lamp Kits

The Shine LED Lamp Kit allows you to retrofit your existing fluorescent exposure system at a fraction of the cost of buying a new LED system. It is designed to provide more consistent light output over time, reduced maintenance associated with lamp changes, and improved operational stability when compared to traditional fluorescent lamps. Shine LED kits are available in 4', 5' and 6' (1197mm, 1498 mm and 1762 mm) lamp sizes.



Knowledge-Based Services

Miraclon's suite of Knowledge-Based Services support the implementation of modern flexo and maximize investment in FLEXCEL NX Technology. Our unparalleled expert application knowledge provides customers with a roadmap to success.

Choose a Technical Support Plan that best fits your business needs —

All Access Plan

Extensive technical support and technology – one price, unlimited opportunity. The All Access Plan is our most comprehensive technical support plan and offers the best value for customers seeking to produce high quality FLEXCEL Plates.

Growth Plan

A plan that expands as your plate volume grows, the Growth Plan offers support that grows as your plate volume increases, ideal for higher volume users.

Confidence Plan

The essential elements for quality platemaking, the Confidence Plan is designed to provide you with the essential support required to maintain consistent, high quality plate production that unlocks the full benefits of your FLEXCEL Solution.